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Filial, Materialy Vtoro Nauchno Sessii po Khimii Serya-
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DESCRIPTORS: Fuels, Chemistry, *Petroleum,
Organic compounds, *Sulfur compounds, *Oils,
*Kerosene, *Sulfides, *Thiophenes, *Thiols, Rea-
gents, *Sodium compounds, *Lubricants, *Corrosive
liquids, Separation, *Towers (Chemistry), Purifica-
tion, Hydrogenation, Desulfurization, *Ores, Sta-
bility, Chemical analysis, *Chromatographic analysis,
(Materials--Fuels, T2, v. 10, no. 4) (over)

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Request translation check 5-2-5

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A G Prudnikov

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apr 70

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Jan 68

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Bogdanovich, I. S., Rukhadze, A. A., and Silin, V. P.
ON THE FLUCTUATIONS OF AN ELECTROMAGNETIC FIELD IN A NONEQUILIBRIUM PLASMA. 7 Feb 63. 21 p. 16 refs.

Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R46. When supply exhausted, order from OTS or SLA \$2.60, 63-10860

I. Bogdanovich, I. S.
II. Rukhadze, A. A.
III. Silin, V. P.
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V. Boeing Scientific Research Labs., Seattle, Wash.

Trans. of Akademiya Nauk SSSR, Fizicheskii Institut, [Rept]-A-80, 1962.

DESCRIPTORS: *Electromagnetic fields, Motion, *Plasma physics, Dielectric properties, Permeability, Electric fields, Statistical functions.

The study examines questions of the fluctuation of an electromagnetic field in a stable, nonequilibrium plasma, and, in particular in an anisothermal plasma and in a (Physics--Electronics, TT, v. 10, no. 1) (over)

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PLASMA ACROSS A MAGNETIC FIELD. 7 Feb 63,
17p. 4 refs.

Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R48. When supply is
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Trans. of Akademiya Nauk SSSR, Fizicheskii Institut.
[Rept. A-83], 1962.

Another trans. is available from OTS or SLA \$1.60 as
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DESCRIPTORS: *Transport properties, *Plasma
physics, Magnetic fields, Plasma oscillations, Theory.

The theory of transport phenomena in a plasma across a
constant magnetic field is set forth. An important new
feature is the taking into account of the interaction of the
(Physics--Electronics, TT, v. 10, no. 1) (over)

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search Labs.
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ON THE OSCILLATIONS OF AN INHOMOGENEOUS
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Order from OTS, SLA, or STC \$2.60 TT-64-14622

Trans. of Akademiya Nauk SSSR, Fizicheskii
Institut, [Rex]-A-7, 1962 (Abstract available)

DESCRIPTORS: *Plasma oscillations, *Magnetic pinch,
Electrons, Ions, Temperature, Field theory, Integral
equations.

The method of geometrical optics is extended to electro-
dynamics with spatial dispersion in which the field
equations are integral equations. This method is used
for the analysis of the problem of the stability of mag-
netic confinement of a plasma. The dispersion equation
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TT-64-14622

I. Kovrizhnykh, L. M.
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63-20697

Kuleshov, V. F. and Rukhadze, A. A.
ON THE THEORY OF THE INTERACTION OF A
BEAM OF CHARGED PARTICLES AND AN INHOMO-
GENEOUS PLASMA. POTENTIAL OSCILLATIONS. I.
[1963] 27p 13refs
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I. Kuleshov, V. F.
II. Rukhadze, A. A.
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DESCRIPTORS: *Particle beams, *Charged particles,
Excitation, Electromagnetic waves, *Plasma oscil-
lations, *Plasma physics, Dielectric properties,
Permeability (Magnetic),

The interaction of a low-density inhomogeneous beam
of charged particles and an inhomogeneous plasma is
investigated in the study. The dielectric permeability
tensor of an inhomogeneous plasma is generalized to
the case of a plasma-beam system. A detailed study
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B. V. Baragzin, N. N. Kadyalov, 17 p.
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May 66

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Study of Plasma Turbulence in a High-Current
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Linear Wave Transformation in an Inhomogeneous
Magnetoactive Plasma, by A. D. Piliya, 18 pp.
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Interaction of a Beam of Runaway Electrons
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P. Ya. Burchenko, B. T. Vasilenko, 10 pp.
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12 pp.
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Institut., Doklady Sovetskikh Palinologov K
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Feb 69

Metastable phases in Titanium Alloys, as well
as their formation mechanism and Kinetics, by
S.G. Fedotov.
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Results of Calculations of Nuclear Fission
According to a Liquid-Drop Model, by V. M.
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Sci Nuclear Sci
Sep 63

Quasi-Static Liquid-Drop Model of Nucleus as
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